# INDEX FOR VOLUME 15


Acorn yield from post oak, 332
Actinomycosis, in elk, 284
Adams, Lowell. Confidence limits for the Petersen or Lincoln index used in animal population studies, 13–19
Aerial photography, for pond mapping, 221
Alcorn, J. R., and Frank Richardson. The chukar partridge in Nevada, 265–275
Aldrich, John W. Book review, 426
Alexander, Maurice M. The aging of muskrats on the Montezuma National Wildlife Refuge, 175–186
Alexander, Maurice M., and Merton Radway. The distribution and production of muskrats on the Montezuma National Wildlife Refuge, 360–367
Alkalization, for improvement of fish conditions, 347
Allen, Durward L. Book review, 122
Animal victims, Nebraska's highways, 410
Antelope, aerial observation of, 330
Atkeson, Thomas Z., and Lawrence Givens. Grey squirrel parasitism by heel fly larvae, 105–106
Atomic radiation, fish, 1

Banding, wildfowl, 335
Barbour, Roger W. Observations on the fall and winter food of bob-white quail in Kentucky, 108
Benton, Allen H. Effects on wildlife of DDT used for control of Dutch elm disease, 20–26
Bergstrom, William H., see Buckley, John L., 112
Birds
  breeding, effects of DDT on, 213
  gallinaceous, mallophaga from, 193
Bobcat, food habits of, 209
Bode, I. T. Book review, 119
Borell, A. E., Russian olive as a wildlife food, 109–110
Bounty, fox, 289
Bryan, Homer F., see Buechner, Helmut K., 81
Byrnildson, O. M., see Hasler, A. D., 347
Buckley, John L., and William H. Bergstrom. Paraldehyde as an aid to handling mammals, 112–113
Buechner, Helmut K., Irven O. Buss, and Homer F. Bryan. Censusing elk by airplane in the Blue Mountains of Washington, 81–87
Buss, Irven O., Roland K. Meyer, and Cyril Kabat. Wisconsin pheasant reproduction studies based on ovulated follicle technique, 32–46
  also, see Buechner, Helmut K., 81

Census, aerial, elk, 81
Cheatum, E. L. Disease in relation to winter mortality of deer in New York, 216–220
Chlordane, effects on game birds, 381
Christisen, Donald M. Yield of acorns from a post oak, *Quercus stellata*, August, 1949, Indian Trail Refuges, Dent County, Missouri, 332–333
Clement, Roland C. Book review, 124
Climate, effect on pheasant range, 330
Coburn, Don R., David W. Metzler, and Ray Treichler. A study of absorption and retention of lead in wild waterfowl in relation to clinical evidence of lead poisoning, 186–192
Cole, LaMont C. Book review, 325
  Population cycles and random oscillations, 233–252
Confidence limits, 13
Control, gopher, 62
Cover, multiflora rose, 158
Coyote, aerial observation of, 330
Cronemiller, F. P. Some dynamics of a mule deer population, 206–208

Dale, Fred H. The refuge in pheasant management, 337–346
  Book review, 423
Davis, Wayne, and Donald Putnam. An aerial coyote-antelope observation, 330
DDT, effects on
  breeding bird population, 213
  wildlife, 20
  wood mouse and box turtle population, 161
Deer
  coralled, productivity and mortality of, 73
  mortality and disease of, in New York, 216
  mule, 129
    population dynamics, 206
  observations on kill, 27
  plants eaten by, 352
  Sonora white-tailed, breeding season, 433

teeth, terminology for, 99
de Vos, Antoon. Overflow and dispersal of marten and fisher from wildlife refuges, 164–175
Dobie, John, and Raymond E. Johnson. Pond mapping by aerial photographs, 221
Dozier, Herbert L. Air inflation as an aid in pelting muskrats, 199–205
Drake, Charles H. Mistaken diagnosis of actinomycosis for osteogenic sarcoma in an American elk (*Cervus canadensis*), 284–287
Ducks
pondwood seeds eaten by, 253
predation, 224
wood, artificial propagation of, 68

Eagles, golden, predation by, 224
Edminster, Frank C. Book reviews, 118, 323, 425
Elk
actinomycosis in, 284
aerial census of, 81
calf, biology of, 396
Rocky Mountain, weights and measurements of, 57
Elkins, W. A. Book review, 426
Emerson, K. C. A list of mallophaga from gallinaceous birds of North America, 193–195
Eschmeyer, R. W. Book review, 422
Evans, Charles D. A method of color-marking young waterfowl, 101–103
Evans, Francis C. Book review, 229

Fichter, Edson, see Mohler, Levi L., 129
Field borders, breeding bird populations, 434
Fish
atomic radiation hazards for, 1
population studies, 88
Fish pond sampling, 110
Fisher, overflow and dispersal of, 164
Food habits
bobcat, 209
clapper rail, 106
quail, 108
Fox bounty, 289
Frogs, in fish ponds, 333

Game populations in Czechoslovakia, 113
Gastler, G. F., A. L. Moxon, and W. T. McKean. Composition of some plants eaten by deer in the Black Hills of South Dakota, 352–357
Givens, Lawrence S., see Atkeson, Thomas Z., 105
Gopher control, 62
Graham, Edward H. Book review, 424
Grieb, Jack R. Tally counter holder for making field observations, 334–335
Grouse
ruffed, hatching dates in Wisconsin, 195
sharptail, trapping in Manitoba, 223
Gullion, Gordon W. A marker for waterfowl, 222–223

Hale, James B., and Robert F. Wendt. Ruffed grouse hatching dates in Wisconsin, 195–199
Hamilton, W. J., Jr. The food of the opossum in New York State, 258–264
Book review, 428
Hanson, Harold C. Notes on the artificial propagation of wood duck, 68–72
Hartesveldt, Richard J. The effect of climate on pheasant range in Hawaii, 330–331
A simple technique for den-use study, 104–105
Sport for pheasants? 332
Hasler, A. D., O. M. Brynildson, and W. T. Helm. Improving conditions for fish in brown-water bog lakes by alkalization, 347–352
Hayne, Don W. Book review, 325
Helm, W. T., see Hasler, A. D., 347
Hewitt, Oliver H. Book review, 226
Higgins, Elmer. Atomic radiation hazards for fish, 1–12
Howard, Walter E. Book review, 324
also, see Miller, Milton A., 62
Hunting, public, in Utah, 367

Insecticides, effects on game birds, 381

Johnson, Donald E. Biology of the elk calf (*Cervus canadensis nelsoni*), 396–410
also, see Quimby, Don C., 57
Johnson, Herbert E. Multiflora rose hips as pheasant food, 221–222
Johnson, Raymond E., see Dobie, John, 221

Kabat, Cyril, see Buss, Irven O., 32
Klimstra, W. D. Some factors affecting the growth and survival of multiflora rose as cover for quail in Davis County, Iowa, 158–160
Kossack, Charles W. Securing celluloid bands on wildfowl, 335–336

Krumholz, Louis A. Further remarks on the minnow seine method of sampling fish ponds, 110–112
Book review, 420

Lagler, K. F., and Harry Van Meter. Abundance and growth of gizzard shad, *Dorosomo cepedianum* (Lesueur), in a small Illinois lake, 357–360
Lake improvement by alkalization, 347
Lead poisoning, in waterfowl, 186
Leedy, Daniel L. Book review, 125
Leedy, Daniel L., *et al.* More stock-taking, 317–322
Leopold, A. Starker. Book reviews, 322, 422
also, see McCabe, Robert A., 433
Levi, Herbert W. Book review, 231

Mallophaga, from North American gallinaceous birds, 195
Mapping ponds by aerial photographs, 221
Marshall, William H. An age determination method for the pine marten, 276–283
Marten
overflow and dispersal of, 164
pine, age determination for, 276
Martin, Alexander C. Identifying pondweed seeds eaten by ducks, 253–258
McCabe, Robert A., and A. Starker Leopold. Breeding season of the Sonora white-tailed deer, 433–434
Book review, 429
McClure, H. Elliott. An analysis of animal victims on Nebraska's highways, 410–420
McKean, W. T., see Gastler, G. F., 352
Metzler, David W., see Coburn, Don R., 186
Meyer, Roland K., see Buss, Irven O., 32
Mice, wood, effects of DDT on, 161
Miller, Milton A., and Walter E. Howard. Size of bait for pocket gopher control, 62–68
Minnow seine pond sampling method, 110
Mohler, Levi, John H. Wampole, and Edson Fichter. Mule deer in Nebraska National Forest, 129–157
Moxon, A. L., see Gastler, G. F., 352
Multiflora rose
growth and survival of, 158
for pheasants, 221
Murie, Adolph. Book review, 228
Muskrats
aging of, 175
distribution and production, 360
live trapping by scent, 117
pelting by air inflation, 199

Newman, William L. Notes on trapping sharp-tail grouse in Manitoba, 223–224
News and Notes, 232

Oman, D. N. A study of populations of fish based on catch-effort statistics, 88–98
Oney, John. Fall food habits of the clapper rail in Georgia, 106–107
Opossum, food of in New York State, 258
Osteogenic sarcoma, in elk, 284

Parasites
in grey squirrel, 105
mallophaga in birds, 193
Partridge, chukar, in Nevada, 265
Petrides, George A. Determination of weasel sex ratios by pelt examination, 114–117
Pheasants
management, 337
multiflora rose hips as food for, 221
range, effect of climate on, 330
reproduction studies, Wisconsin, 32
stocking, Montana, 299
unusual behavior, 332
Plants, eaten by deer, 352
Pollack, E. Michael. Food habits of the bobcat in the New England States, 209–213
Pondweed seeds, eaten by ducks, 253
Population cycles, 233
Population studies, 13
Post, George. Effects of toxaphene and chlordane on certain game birds, 381–386
Pough, Richard. Book review, 121
Predation
ducks, swans, and eagles, 224
on waterfowl nests, 386
Putnam, Donald, see Davis, Wayne, 330

Quail, bob-white, food of, 108
Quimby, Don C., and Donald E. Johnson. Weights and measurements of Rocky Mountain elk, 57–62
Radway, Merton, see Alexander, Maurice M., 360
Rail, clapper, food habits of, 106
Raney, E. C. Book review, 124
Recent publications, 328–329
Rearden, J. D. Identification of waterfowl nest predators, 386–395
Refuges, in relation to pheasant management, 337

Reviews, 118–128; 226–232; 322–328; 420–431
Richardson, Frank, see Alcorn, J. R., 265
Richter, Wilmer C. An instrument for taking field measurements, 432
Riney, Thane. Standard terminology for deer teeth, 99–101
Robbins, Chandler S., Paul F. Springer, and Clark G. Webster. Effects of five-year DDT application on breeding bird population, 213–216
Roby, Edwin F. A two year study of pheasant stocking in the Gallatin Valley, Montana, 299–307
Rosene, Walter, Jr. Breeding bird populations of upland field borders, 434–436
Frogs in a farm fishpond, 333–334
Russian olive as wildlife food, 109

Scent, use in live-trapping muskrats, 117
Schrader, T. A. Book review, 227
Severinghaus, C. W. A study of productivity and mortality of coralled deer, 73–80
Sex ratios, weasel, 114
Shad, gizzard, growth of, 357
Sharp, Ward M. Observations on predator-prey relations between wild ducks, trumpeter swans and golden eagles, 224–226
Singleton, J. R. Production and utilization of waterfowl food plants on the east Texas Gulf Coast, 46–56
Springer, Paul F., see Robbins, Chandler S., 213
Squirrel, grey, parasites in, 105
Stickel, Lucille. Wood mouse and box turtle populations in an area treated annually with DDT for five years, 161–164
Swans, trumpeter, predation, 224
Swanson, Gustav A. Motion picture review, 327
Book review, 430
Switzenberg, D. F. Examination of a state fox bounty, 288–299

Tally counter holder, 334
Techniques
den-use study, 104
instrument for field measurements, 432
paraldehyde in mammal handling, 112
tally counter holder, 334
Toxaphene, effects on game birds, 381
Trapping
grouse, sharptail, 223
muskrats, 117
Treichler, Ray, see Coburn, Don R., 186
Turček, F. J. Effect of introductions on two game populations in Czechoslovakia, 113–114
Turtles, box, effects of DDT on, 161

Van Den Akker, J. B., and V. T. Wilson. Public hunting on the Bear River Migratory Bird Refuge, Utah, 367–381
Van Meter, Harry, see Lagler, K. F., 357

Wampole, John H., see Mohler, Levi L., 129
Waterfowl
banding, 335
color marking, 101
food plants, 46
lead poisoning in, 186
marker for, 222
predators on nests of, 386
Weasel, sex ratios, 114
Webster, Clark G., see Robbins, Chandler S., 213
Wendt, Robert F., see Hale, James B., 195
Westerskov, Kaj. Observations on deer kill under different systems of hunting, 27–32
Book review, 428
Wildlife Society, The, reports, 307–317
Williams, Roger M. The use of scent in live-trapping muskrats, 117–118
Wilson, V. T., see, Van Den Akker, J. B., 367